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9. (New) A nitride semiconductor laser comprising

a GaN substrate having a single-crystal GaN layer at least on its surface and

device-forming layers made of nitride semiconductor that are formed on said GaN substrate,

wherein said single-crystal GaN layer is formed through a lateral-growth process; and

said device-forming layer contacting said GaN substrate is made of $Al_aGa_{1\text{-}a}N(0{<}a{\leq}1). \label{eq:algalance}$

- 10. (New) The nitride semiconductor laser according to claim 9, wherein said device-forming layer contacting said GaN substrate is made of $Al_aGa_{1-a}N$ (0<a<0.3).
- 11. (New)The nitride semiconductor laser according to claim 9, wherein said device-forming layer contacting said GaN substrate is made of $Al_aGa_{1-a}N$ (0<a<0.1).
- 12. (New)The nitride semiconductor laser according to claim 9, wherein said device-forming layer contacting said GaN substrate has a thickness of not less than 1 µm.
- 13. (New)The nitride semiconductor laser according to claim 9, wherein said device-forming layer contacting said GaN substrate has a thickness of 3 to 10µm.
- 14. (New)The nitride semiconductor laser according to claim 9. wherein said device-forming layers include

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an $Al_aGa_{1-a}N(0< a\leq 1)$ layer contacting said GaN substrate, an n-type cladding layer containing Al. an active layer containing InGaN, and a p-type cladding layer containing Al.

- 15. (New)The nitride semiconductor laser according to claim 14, wherein said $Al_aGa_{1-a}N$ layer contacting said GaN substrate has been grown without an impurity doping.
- 16. (New)The nitride semiconductor laser according to claim 14, wherein said device forming layers include a crack-preventinglayer made of indium gallium nitride intervening between said Al_aGa_{1-a}N layer and said n-type cladding layer.